

T10D02 - Functional groups, nomenclature and structural formulae CONTINUED

Name.....

On THIS SHEET write out the **full** structural formula **AND** the condensed formula of the following molecules:

Organic Nomenclature	Condensed formula	Structural Formula
A. Methanol		
B. butanone		
C. pentan-3-one		
D. butanoic acid		
E. propan-2-ol		
F. propanamide		
G. 3-aminohexane		
H. 1,1,2-trichloroethane		
I. 1,2-dibromoethene		

Name each of the following organic compounds:

a) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$	h) $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{CHO}$
b) $\text{CH}_3\text{CH}_2\text{CH}_2\text{C}(\text{CH}_3)_3$	j) $\text{CH}_3\text{CHBrCHBrCH}_3$
c) $\text{CH}_2=\text{CHCH}_2\text{CH}_2\text{CH}_3$	k) $\text{CH}_2\text{BrCH}(\text{CH}_3)\text{CHClCH}_2\text{CH}_3$
d) $\text{CH}_3\text{CHClCH}(\text{CH}_3)_2$	l) $\text{CH}_3\text{CH}(\text{OH})\text{CH}(\text{CH}_3)_2$
d) $(\text{CH}_3)_2\text{C}(\text{OH})\text{CH}_2\text{CH}_3$	m) $(\text{CH}_3)_2\text{CHCHO}$
e) CH_3CHO	n) $\text{CH}_3\text{CH}_2\text{CH}_2\text{COCH}_3$
f) $\text{CH}_3\text{CH}_2\text{COCH}_2\text{CH}_3$	o) $(\text{CH}_3)_2\text{CHCOOH}$
g) $\text{CH}_3\text{CH}_2\text{COOH}$	p) $\text{CH}_3\text{CHBrCH}(\text{OH})\text{CH}_3$

Draw the structural formula of each of the following organic compounds.

a) 2,2-dimethylbutane	
b) 4-ethylhex-2-ene	
c) 2-bromo-2-iodobutane	
d) 4-hydroxybut-1-ene	
e) 2,2,3-trimethylbutane	
f) 3-chlorobutanal	
g) 3-methylbutanone	
h) 2-bromobutanoic acid	
i) 1,2-dichloropent-1-ene	
j) 3-hydroxybutanoic acid	

